

A schematic diagram of a mechanical assembly. A base structure is shown on the right, with a vertical section indicated by diagonal hatching. A horizontal member, labeled 30, is attached to the base. A tilting force, represented by a thick black arrow pointing to the left and labeled "TILTING FORCE", is applied to the base. A vertical member, labeled 13, is connected to the horizontal member 30. A hydraulic cylinder, labeled 12, is connected to the vertical member 13. The cylinder 12 is shown in a retracted position, with a dashed line indicating its extended position. A force, labeled "CYLINDER FORCE", is shown as a thick black arrow pointing upwards along the cylinder's axis. The cylinder 12 is connected to a lever arm, labeled 10, which is pivoted at its top end. The lever arm 10 is connected to a vertical member, labeled 18, which is also pivoted at its top end. The lever arm 10 is shown in a retracted position, with a dashed line indicating its extended position. The vertical member 18 is connected to a horizontal member, labeled 19, which is pivoted at its right end. The horizontal member 19 is connected to a vertical member, labeled 13, which is pivoted at its bottom end. The vertical member 13 is connected to the horizontal member 30. The diagram illustrates the mechanical linkage and forces involved in the tilting of the assembly.